

Claims

What is claimed is:

1. An automatic anchoring device for the securement of objects into sand, grass, or other malleable surfaces comprising:
 - a. a main tube ;
 - b. an anchor screw;
 - c. an inside assembly comprised of components that fit together to form one mechanism inside the main tube;
 - d. whereby said inside assembly comprises a power drive, a gear reduction box, and a power drive stabilizer and positioning cone;
 - e. whereby said power drive comprises a rechargeable battery, a DC electric motor and a three-function power switch
 - f. whereby said anchor screw affixes to said power drive; and
 - g. whereby depressing said three-function power switch engages said DC electric motor, which in turn rotates said anchor screw into and out of said surface.
2. The automatic anchoring device as claimed in claim 1 wherein a reinforcement ring and a securing nut proximately placed near the top of the main tube to secure any device of an appropriate diameter into said anchoring device.
3. The automatic anchoring device as claimed in claim 2, wherein the main tube further comprises a carrying handle, a carrying handle channel and extract/retract lock buttons and corresponding extract and retract ports.
4. The automatic anchoring device as claimed in claim 3 wherein additional safety devices are added such as a three-function power switch channel whereby said three-function power switch can only be in the forward or reverse position when the anchor screw is fully extended.
5. The automatic anchoring device as claimed in claim 4 wherein a safety nose is affixed to the end of the main tube to help prevent the accidental intake of any material between the main tube and the anchor screw.

6. The automatic anchoring device as claimed in claim 5 wherein said anchor screw is comprised of a plurality of helical tapers.
7. The automatic anchoring device as claimed in claim 6 wherein an umbrella is secured with a securing nut to the topmost portion of the main tube.
8. The automatic anchoring device as claimed in claim 7 wherein any other type of device with an appropriate diameter can be secured with a securing nut to the topmost portion of the main tube.
9. A device as claimed in claim 8, wherein said inside assembly can be removed for maintenance purposes by adjusting a safety nose setscrew.